The MOLE Activity

At each lab station, you will find a vial. Look at the vial and make the appropriate calculations in the table below. Make sure all the columns are filled in with the correct calculations.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vial # | Name of Substance | Formula of  Substance | Number of moles | Amount in grams | Number of representative  Particles | Amount in volume |
| 1 |  | CuCl2 |  | 5.70g |  | XXXXXXXXX |
| 2 | Zinc |  |  | 7.83g |  | XXXXXXXXX |
| 3 |  | Fe2O3 |  | 1.63g |  | XXXXXXXXX |
| 4 | Aluminum |  |  | 8.36g |  | XXXXXXXXX |
| 5 |  | H2O | 0.728mol |  |  | XXXXXXXXX |
| 6 |  | S | 0.0471mol |  |  | XXXXXXXXX |
| 7 |  | MgSO4 | 0.0282mol |  |  | XXXXXXXXX |
| 8 |  | K2Cr2O7 | 0.0109mol |  |  | XXXXXXXXX |
| 9 | Sucrose |  |  | 2.55g |  | XXXXXXXXX |
| 10 | Tin |  |  | 2.72g |  | XXXXXXXXX |
| 11 |  | NaCl |  | 4.99g |  | XXXXXXXXX |
| 12 | Sodium Bicarbonate |  |  | 3.58g |  | XXXXXXXXX |
| 13 | Air |  |  |  | XXXXXXXXXX | 63mL |